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METHOD FOR BALANCING ENGINE CYLINDER  
BANK OUTPUT USING CRANKSHAFT SENSING  
AND INTAKE CAM PHASING

## ABSTRACT OF THE DISCLOSURE

A method is disclosed for balancing work output from cylinder banks of an engine having a common crankshaft and separate intake camshafts with cam phasers for each bank. The method includes sensing a  
5 crankshaft rotational characteristic, such as instantaneous rotational speed or acceleration, during the power strokes of pistons of predetermined comparable cylinders (or all cylinders) of each bank, computing average crankshaft rotational characteristics for the power strokes of the comparable cylinders of each bank, and adjusting the phasing of at least one of the intake  
10 camshafts to obtain equal averages of the sensed characteristics of the crankshaft during the power strokes of the respective banks.